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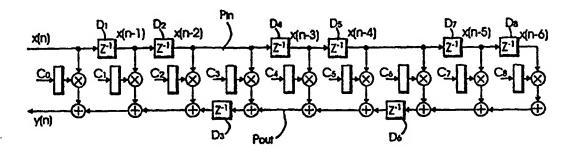
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(57) Abstract

A digital filter has an input path and an output path and includes a set of delay elements and a number of taps. The taps couple the input path to the output path. Each of the taps has a coefficient, a multiplier and an adder. Each of the delay elements is disposed between two adjacent taps. The delay elements are placed in either the input path and the output path of the digital filter, such that the digital filter has fewer delay elements in the input path than a direct-form digital filter with the same number of taps in a direct-form structure, and has fewer delay elements in the output path than a transposed-form digital filter with the same number of taps in a transposed-form structure; and such that the digital filter has same transfer function as the direct-form digital filter and the transposed-form digital filter.

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Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,	Auti	horized officer			
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Information on patent family members

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